```
================================================================
Sequence Listing could not be accepted due to errors.
See attached Validation Report.
If you need help call the Patent Electronic Business Center at (866)
217-9197 (toll free).
Reviewer: Anne Corrigan
Timestamp: [year=2010; month=5; day=5; hr=7; min=16; sec=37; ms=125; ]
================================================================



****************************************************************
Reviewer Comments:
<210>   19
<211>   53
<212>   PRT
<213>   Artificial sequence


<213>   Artificial Sequence


<220>
<221>   MISC_FEATURE
<222>   (18)..(43)
<223>   X is any amino acid


<400>   19


Thr Met Val Met Gly Arg Gly Ser His His His His His His Ala Arg
1               5                   10                  15



Ser Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
            20                  25                  30



Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Asp Ala Asn Ala Pro
        35                  40                  45



Lys Ala Ser Ala Ile
    50
```

Please remove the duplicate "<213> Artificial Sequence", and provide a
<220>-<223> section giving the source of the genetic material of
"Artificial Sequence".

<210>   22
<211>   127
<212>   DNA
<213>   Artificial sequence

<220>
<221>   MISC_FEATURE
<222>   (28)..(105)
<223>   S and N are A, T, G or C

<400>   22
agcggatgcc ttcggagcgt tagcgtcsnn snnsnnsnns nnsnnsnnsn nsnnsnnsnn
60

snnsnnsnns nnsnnsnnsn nsnnsnnsnn snnsnnsnns nnsnnagatc tagcatgatg
120

atgatga
127

Please provide a <220>-<223> section explaining "<213> Artificial
Sequence": please clearly indicate the source of the genetic material.
Also, the <223> response regarding the "s's" and "n's" is erroneous:
"s" can only represent c or g. Please re-word the <223> response as
follows: s represents c or g, and n represents a, t, g or c.

<160>   414

Although the above <160> response is "414", 415 sequences are in the
submitted file. See below for last sequence:

<210>   415
<211>   50
<212>   PRT
<213>   Artificial Sequence

<220>

<223> Synthetic sequence, no source organism

<400> 415

Met Gly Arg Gly Ser His His His His His His Ala Arg Ser Leu Ser
1   5   10   15

Arg Leu Ala Thr Val Leu Asp Glu Pro Asp Arg Ser Leu Gln Thr Arg
            20   25   30

Thr Asn Arg Pro His Arg Met Ile Asp Ala Asn Ala Pro Lys Ala Ser
        35   40   45

Ala Ile
    50

****

Validated By CRFValidator v 1.0.3

Application No: 10579655   Version No: 3.0

Input Set:

Output Set:

Started: 2010-05-04 14:49:08.175
Finished: 2010-05-04 14:49:18.784
Elapsed: 0 hr(s) 0 min(s) 10 sec(s) 609 ms
Total Warnings: 380
Total Errors: 5
No. of SeqIDs Defined: 414
Actual SeqID Count: 415

Error code	Error Description
W 402	Undefined organism found in <213> in SEQ ID (1)
W 402	Undefined organism found in <213> in SEQ ID (2)
W 402	Undefined organism found in <213> in SEQ ID (3)
W 402	Undefined organism found in <213> in SEQ ID (4)
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 213	Artificial or Unknown found in <213> in SEQ ID (8)
W 402	Undefined organism found in <213> in SEQ ID (9)
W 402	Undefined organism found in <213> in SEQ ID (10)
W 402	Undefined organism found in <213> in SEQ ID (11)
W 402	Undefined organism found in <213> in SEQ ID (12)
W 402	Undefined organism found in <213> in SEQ ID (13)
W 402	Undefined organism found in <213> in SEQ ID (14)
W 402	Undefined organism found in <213> in SEQ ID (15)
W 402	Undefined organism found in <213> in SEQ ID (16)
W 402	Undefined organism found in <213> in SEQ ID (17)
W 213	Artificial or Unknown found in <213> in SEQ ID (18)
W 213	Artificial or Unknown found in <213> in SEQ ID (19)
E 249	Order Sequence Error <213> -> <213>; Expected Mandatory Tag: <400>

Input Set:

Output Set:

Started:	2010-05-04 14:49:08.175
Finished:	2010-05-04 14:49:18.784
Elapsed:	0 hr(s) 0 min(s) 10 sec(s) 609 ms
Total Warnings:	380
Total Errors:	5
No. of SeqIDs Defined:	414
Actual SeqID Count:	415

Error code		Error Description
		SEQID (19)
W	213	Artificial or Unknown found in <213> in SEQ ID (19)
E	224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (19)
W	213	Artificial or Unknown found in <213> in SEQ ID (20)
W	213	Artificial or Unknown found in <213> in SEQ ID (21)
W	213	Artificial or Unknown found in <213> in SEQ ID (22)
E	224	<220>,<223> section required as <213> has Artificial sequence or Unknown in SEQID (22)
W	402	Undefined organism found in <213> in SEQ ID (23)
W	402	Undefined organism found in <213> in SEQ ID (24)
W	402	Undefined organism found in <213> in SEQ ID (25)
W	402	Undefined organism found in <213> in SEQ ID (26)
W	402	Undefined organism found in <213> in SEQ ID (28)
W	402	Undefined organism found in <213> in SEQ ID (29)
W	402	Undefined organism found in <213> in SEQ ID (30) This error has occured more than 20 times, will not be displayed
W	213	Artificial or Unknown found in <213> in SEQ ID (77)
W	213	Artificial or Unknown found in <213> in SEQ ID (78)
W	213	Artificial or Unknown found in <213> in SEQ ID (79)
W	213	Artificial or Unknown found in <213> in SEQ ID (80)
W	213	Artificial or Unknown found in <213> in SEQ ID (253)
W	213	Artificial or Unknown found in <213> in SEQ ID (254)
W	213	Artificial or Unknown found in <213> in SEQ ID (255)

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           Input Set:


           Output Set:



             Started:   2010-05-04 14:49:08.175
            Finished:   2010-05-04 14:49:18.784
             Elapsed:   0 hr(s) 0 min(s) 10 sec(s) 609 ms
      Total Warnings:   380
        Total Errors:   5
  No. of SeqIDs Defined:   414
   Actual SeqID Count:   415
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Error code   Error Description

```
W   213        Artificial or Unknown found in <213>  in SEQ ID (256)

W   213        Artificial or Unknown found in <213>  in SEQ ID (257)

W   213        Artificial or Unknown found in <213>  in SEQ ID (258)
                This error has occured more than 20 times, will not be displayed

E   252        Calc# of Seq. differs from actual; 414 seqIds defined; count=415

E   250        Structural Validation Error; Sequence listing may not be indexable
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<110> Sanofi Pasteur, Inc.

<120> METHODS FOR PURIFYING PERTUSSIS TOXIN AND PEPTIDES USEFUL
       THEREFOR

<130> API-03-15

<140> 10/579,655
<141> 2006-05-18

<150> 60/523,881
<151> 2003-11-20

<150> PCT/US2004/038700
<151> 2004-11-18

<160> 414

<170> PatentIn version 3.5

<210> 1
<211> 7
<212> PRT
<213> Gymnea sylvestre

<400> 1

Asn Gly Ser Phe Ser Gly Phe
1   5

<210> 2
<211> 7
<212> PRT
<213> Gymnea sylvestre

<400> 2

Asn Gly Ser Phe Ser Gly Cys
1   5

<210> 3
<211> 7
<212> PRT
<213> Gymnea sylvestre

<400> 3

Asp Gly Ser Phe Ser Gly Phe
1   5

<210> 4
<211> 7

<212> PRT
<213> Gymnea sylvestre

<220>
<221> MISC_FEATURE
<222> (1)..(7)
<223> X is any amino acid

<400> 4

Xaa Gly Ser Phe Ser Gly Xaa
1   5

<210> 5
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic sequence, no source organism

<400> 5

Arg Ser Ser His Cys Arg His Arg Asn Cys His Thr Ile Thr Arg Gly
1   5   10   15

Asn Met Arg Ile Glu Thr Pro Asn Asn Ile Arg Lys Asp Ala
            20   25   30

<210> 6
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic sequence, no source organism

<400> 6

Ser Thr Met Asn Thr Asn Arg Met Asp Ile Gln Arg Leu Met Thr Asn
1   5   10   15

His Val Lys Arg Asp Ser Ser Pro Gly Ser Ile Asp Ala
            20   25

<210> 7
<211> 30
<212> PRT
<213> Artificial Sequence

<220>

<223>   Synthetic sequence, no source organism

<400>   7

Arg Ser Asn Val Ile Pro Leu Asn Glu Val Trp Tyr Asp Thr Gly Trp
1   5   10   15

Asp Arg Pro His Arg Ser Arg Leu Ser Ile Asp Asp Asp Ala
            20   25   30

<210>   8
<211>   30
<212>   PRT
<213>   Artificial Sequence

<220>
<223>   Synthetic sequence, no source organism

<400>   8

Arg Ser Trp Arg Asp Thr Arg Lys Leu His Met Arg His Tyr Phe Pro
1   5   10   15

Leu Ala Ile Asp Ser Tyr Trp Asp His Thr Leu Arg Asp Ala
            20   25   30

<210>   9
<211>   34
<212>   PRT
<213>   Gymnea sylvestre

<400>   9

Ser Gly Cys Val Lys Lys Asp Glu Leu Cys Ala Arg Trp Asp Leu Val
1   5   10   15

Cys Cys Glu Pro Leu Glu Cys Ile Tyr Thr Ser Glu Leu Tyr Ala Thr
            20   25   30

Cys Gly

<210>   10
<211>   34
<212>   PRT
<213>   Gymnea sylvestre

<400>   10

Ser Gly Cys Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Val Asp Glu

Cys Cys Glu Pro Leu Glu Cys Phe Gln Met Gly His Gly Phe Lys Arg
            20   25   30

Cys Gly

<210>   11
<211>   35
<212>   PRT
<213>   Gymnea sylvestre

<400>   11

Ser Gly Cys Val Lys Lys Asp Glu Leu Cys Ser Gln Ser Val Pro Met
1   5   10   15

Cys Cys Glu Pro Leu Glu Cys Lys Trp Phe Asn Glu Asn Tyr Gly Ile
            20   25   30

Cys Gly Ser
        35

<210>   12
<211>   34
<212>   PRT
<213>   Gymnea sylvestre

<400>   12

Ser Gly Cys Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Glu
1   5   10   15

Cys Cys Glu Pro Leu Glu Cys Thr Lys Gly Asp Leu Gly Phe Arg Lys
            20   25   30

Cys Gly

<210>   13
<211>   35
<212>   PRT
<213>   Gymnea sylvestre

<400>   13

Gln Gln Cys Val Lys Lys Asp Glu Leu Cys Ile Pro Tyr Tyr Leu Asp

```
1                 5                    10                      15
```

Cys Cys Glu Pro Leu Glu Cys Lys Lys Val Asn Trp Trp Asp His Lys
```
            20                    25                    30
```

Cys Ile Gly
```
        35
```

```
<210>  14
<211>  31
<212>  PRT
<213>  Gymnea sylvestre
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```
<220>
<221>  MISC_FEATURE
<222>  (9)..(30)
<223>  X is any amino acid
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<400>  14
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Cys Val Lys Lys Asp Glu Leu Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Cys
```
1                 5                    10                      15
```

Glu Pro Leu Glu Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys
```
            20                    25                    30
```

```
<210>  15
<211>  141
<212>  DNA
<213>  Gymnea sylvestre
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<220>
<221>  misc_feature
<222>  (49)..(113)
<223>  n is a, g, t or c
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<400>  15
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nnsnnstgct gtgagcccct cgagtgcnns nnsnnsnnsn nsnnsnnsnn snnstgcggc     120

agcggcagtt ctgggtctag c                                              141
```

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<210>  16
<211>  84
<212>  DNA
<213>  Gymnea sylvestre
```

```
<400>  16
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taatacgact cactataggg acaattacta tttacaatta caatgcacca tcaccatcac   60

catagtggct caagctcagg atca   84

<210> 17
<211> 44
<212> DNA
<213> Gymnea sylvestre

<400> 17
ttttaaatag cggatgctac taggctagac ccagaactgc cgct   44

<210> 18
<211> 10
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic sequence, no source organism

<400> 18
uagcggaugc   10

<210> 19
<211> 53
<212> PRT
<213> Artificial sequence

<213> Artificial Sequence

<220>
<221> MISC_FEATURE
<222> (18)..(43)
<223> X is any amino acid

<400> 19

Thr Met Val Met Gly Arg Gly Ser His His His His His His Ala Arg
1   5   10   15

Ser Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
            20   25   30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Asp Ala Asn Ala Pro
        35   40   45

Lys Ala Ser Ala Ile
    50

<210> 20

<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic sequence, no source organism

<400> 20

His His His His His His
1   5

<210> 21
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic sequence, no source organism

<400> 21

Asp Ala Asn Ala Pro Lys
1   5

<210> 22
<211> 127
<212> DNA
<213> Artificial sequence

<220>
<221> MISC_FEATURE
<222> (28)..(105)
<223> S and N are A, T, G or C

<400> 22
agcggatgcc ttcggagcgt tagcgtcsnn snnsnnsnns nnsnnsnnsn nsnnsnnsnn   60

snnsnnsnns nnsnnsnnsn nsnnsnnsnn snnsnnsnns nnsnnagatc tagcatgatg   120

atgatga   127

<210> 23
<211> 81
<212> DNA
<213> Gymnea sylvestre

<400> 23
taatacgact catagggaca attactattt acaattacaa tgggacgtgg ctcacatcat   60

catcatcatc atgctagatc t   81

<210> 24
<211> 32
<212> DNA
<213> Gymnea sylvestre

<400> 24
aattaaatag cggatgcctt cggagcgtta gc   32

<210> 25
<211> 18
<212> DNA
<213> Bacteriophage M13

<400> 25
tgtaaaacga cggccagt   18

<210> 26
<211> 54
<212> PRT
<213> Gymnea sylvestre

<400> 26

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1   5   10   15

Val Lys Lys Asp Glu Leu Cys Ala Gly Ser Val Gly His Cys Cys Glu
            20   25   30

Pro Leu Glu Cys Leu Arg Arg Phe Leu Asn Leu Arg Trp Cys Gly Ser
            35   40   45

Gly Ser Ser Gly Ser Ser
        50

<210> 27
<211> 54
<212> PRT
<213> Gymnema sylvestre

<400> 27

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1   5   10   15

Val Lys Lys Asp Glu Leu Cys Ile Val Met Arg Ala Pro Cys Cys Glu
            20   25   30

Pro Leu Glu Cys Leu Arg Arg Tyr Met Leu Lys His Met Cys Gly Ser

Gly Ser Ser Gly Ser Ser
    50

<210> 28
<211> 54
<212> PRT
<213> Gymnea sylvestre

<400> 28

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1   5   10   15

Val Lys Lys Asp Glu Leu Cys Lys Ala Phe Arg Tyr Ser Cys Cys Glu
            20   25   30

Pro Leu Glu Cys Leu Arg Lys Trp Leu Lys Ala Arg Phe Cys Gly Ser
        35   40   45

Gly Ser Ser Gly Ser Ser
    50

<210> 29
<211> 54
<212> PRT
<213> Gymnea sylvestre

<400> 29

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1   5   10   15

Val Lys Lys Asp Glu Leu Cys Leu Arg Ser Ser Ile Asp Cys Cys Glu
            20   25   30

Pro Leu Glu Cys Leu Tyr Lys Trp Met Gln Arg Arg Leu Cys Gly Ser
        35   40   45

Gly Ser Ser Gly Ser Ser
    50

<210> 30
<211> 54
<212> PRT
<213> Gymnea sylvestre

<400> 30

Met His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1   5   10   15

Val Lys Lys Asp Glu Leu Cys Trp Pro Arg Arg His Lys Cys Cys Glu
            20   25   30

Pro Leu Glu Cys Leu Leu Glu Met Leu Glu Arg Lys Arg Cys Gly Ser
        35   40   45

Gly Ser Ser Gly Ser Ser
    50

<210>   31
<211>   53
<212>   PRT
<213>   Gymnea sylvestre

<400>   31

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1   5   10   15

Val Lys Lys Asp Glu Leu Cys Met Ser Met Ala Cys Val Cys Cys Glu
            20   25   30

Pro Leu Glu Cys Lys Tyr His Gly Tyr Phe Trp Leu Cys Gly Ser Gly
        35   40   45

Ser Ser Gly Ser Ser
    50

<210>   32
<211>   54
<212>   PRT
<213>   Gymnea sylvestre

<400>   32

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1   5   10   15

Val Lys Lys Asp Glu Leu Cys Ala Val Trp Phe Asp Val Cys Cys Glu
            20   25   30

Pro Leu Glu Cys Thr Tyr Gln Ser Gly Tyr Tyr Trp Leu Cys Gly Ser
      35   40   45

Gly Ser Ser Gly Ser Ser
      50

<210> 33
<211> 54
<212> PRT
<213> Gymnea sylvestre

<400> 33

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1   5   10   15

Val Lys Lys Asp Glu Leu Cys Glu Pro Trp Tyr Trp Arg Cys Cys Glu
              20   25   30

Pro Leu Glu Cys Val Tyr Thr Ser Gly Tyr Tyr Tyr Ser Cys Gly Ser
      35   40   45

Gly Ser Ser Gly Ser Ser
      50

<210> 34
<211> 54
<212> PRT
<213> Gymnea sylvestre

<400> 34

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1   5   10   15

Val Lys Lys Asp Glu Leu Cys Ala Arg Trp Asp Leu Val Cys Cys Glu
              20   25   30

Pro Leu Glu Cys Ile Tyr Thr Ser Glu Leu Tyr Ala Thr Cys Gly Ser
      35   40   45

Gly Ser Ser Gly Ser Ser
      50

<210> 35
<211> 54
<212> PRT

<213> Gymnea sylvestre

<400> 35

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1   5   10   15

Val Lys Lys Asp Glu Leu Cys Val Phe Tyr Phe Pro Asn Cys Cys Glu
            20   25   30

Pro Leu Glu Cys Arg Trp Val Asn Asp Asn Tyr Gly Trp Cys Gly Ser
        35   40   45

Gly Ser Ser Gly Ser Ser
    50

<210> 36
<211> 53
<212> PRT
<213> Gymnea sylvestre

<400> 36

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1   5   10   15

Val Lys Lys Asp Glu Leu Cys Met Ser Met Ala Cys Val Cys Cys Glu
            20   25   30

Pro Leu Glu Cys Lys Tyr His Gly Tyr Phe Trp Leu Cys Gly Ser Gly
        35   40   45

Ser Ser Gly Ser Ser
    50

<210> 37
<211> 54
<212> PRT
<213> Gymnea sylvestre

<400> 37

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1   5   10   15

Val Lys Lys Asp Glu Leu Cys Thr Thr Ala Ser Lys Ser Cys Cys Glu
            20   25   30

Pro Leu Glu Cys Lys Trp Thr Asn Glu His Phe Gly Thr Cys Gly Ser
        35   40   45

Gly Ser Ser Gly Ser Ser
    50

<210> 38
<211> 54
<212> PRT
<213> Gymnea sylvestre

<400> 38

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1   5   10   15

Val Lys Lys Asp Glu Leu Cys Ser Gln Ser Val Pro Met Cys Cys Glu
            20   25   30

Pro Leu Glu Cys Lys Trp Phe Asn Glu Asn Tyr Gly Ile Cys Gly Ser
        35   40   45

Gly Ser Ser Gly Ser Ser
    50

<210> 39
<211> 54
<212> PRT
<213> Gymnea sylvestre

<400> 39

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1   5   10   15

Val Lys Lys Asp Glu Leu Cys Ala Arg Trp Asp Leu Val Cys Cys Glu
            20   25   30

Pro Leu Glu Cys Ile Tyr Thr Ser Glu Leu Tyr Ala Thr Cys Gly Ser
        35   40   45

Gly Ser Ser Gly Ser Ser
    50

<210> 40
<211> 54

<212> PRT
<213> Gymnea sylvestre

<400> 40

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1   5   10   15

Val Lys Lys Asp Glu Leu Cys Ala Arg Trp Asp Leu Val Cys Cys Glu
            20   25   30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser
            35   40   45

Gly Ser Ser Gly Ser Ser
        50

<210> 41
<211> 53
<212> PRT
<213> Gymnea sylvestre

<400> 41

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1   5   10   15

Val Lys Lys Asp Glu Leu Cys Met Trp Ser Arg Glu Val Cys Cys Glu
            20   25   30

Pro Leu Glu Cys Tyr Tyr Thr Gly Trp Tyr Trp Ala Cys Gly Ser Gly
            35   40   45

Ser Ser Gly Ser Ser
        50

<210> 42
<211> 54
<212> PRT
<213> Gymnea sylvestre

<400> 42

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1   5   10   15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Val Asp Glu Cys Cys Glu
            20   25   30

Pro Leu Glu Cys Phe Gln Met Gly His Gly Phe Lys Arg Cys Gly Ser
        35   40   45

Gly Ser Ser Gly Ser Ser
        50

<210>   43
<211>   54
<212>   PRT
<213>   Gymnea sylvestre

<400>   43

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1   5   10   15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Val Asp Glu Cys Cys Glu
                20   25   30

Pro Leu Glu Cys Thr Lys Gly Asp Leu Gly Phe Arg Lys Cys Gly Ser
        35   40   45

Gly Ser Ser Gly Ser Ser
        50

<210>   44
<211>   54
<212>   PRT
<213>   Gymnea sylvestre

<400>   44

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1   5   10   15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
                20   25   30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser
        35   40   45

Gly Ser Ser Gly Ser Ser
        50

<210>   45

<211> 54
<212> PRT
<213> Gymnea sylvestre

<400> 45

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1   5   10   15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Val Cys Cys Glu
            20   25   30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser
            35   40   45

Gly Ser Ser Gly Ser Ser